SECTION A: CERTIFICATION PAGE

ORIGINAL

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OFFICE OF STUDENT AND SCHOOL SUPPORTS

APPLICATION FOR A SUBGRANT UNDER
College and Career Readiness Grants

Return to: NEVADA DEPARTMENT OF EDUCATION
Office of Student and School Supports
700 East Fifth Street, Suite 110
Carson City, NV 89701
ATTN: Homa Anooshehpoor

APPLICANT CERTIFICATION

I HEREBY CERTIFY that, to the best of my knowledge, the information in this application is correct.

The applicant designated below hereby applies for a subgrant of state funds to expand STEM, dual enrollment, or AP programs to provide services to meet the educational needs of students. The local Board of Trustees has authorized me to file this application and such action is recorded in the minutes of the agency's meeting held on May 24, 2016 (Date).

Signature: _____ Date: 4/28/16
Superintendent of Schools or Designated Representative

Applicant (Legal Name of Agency): Northwest Regional Professional Development Program	
Mailing Address (Street, P.O. Box, City/Zip) P.O. Box 30425 Reno, NV 89520	**Application for FY2017** Starting Date **July 1, 2016**
Name, title and phone number of authorized contact person: Lauren Ohlin, Director of Grants, (775) 348-0254	Ending Date **June 30, 2017**
Amount of application: $134,999.00	

STATE DEPARTMENT OF EDUCATION USE ONLY

Date Received:	Obligation Amount	$_____
Reviewer's Signature:		Date:

Section B. Executive Summary

In 2015, more than one-third of eighth grade students in Nevada were not proficient in science on the Criterion Referenced Test (CRT) and fewer than one-fourth exceeded standards. In 11th grade, fewer than 8% of students were proficient in science on the High School Proficiency Examination and more than one-fourth scored below standard. Only **37% of high school graduates** in Nevada tested on the American College Test (ACT) in science in 2015 met the science benchmark. The Federal Aviation Administration (FAA) recently named Nevada as one of six Unmanned Autonomous Systems (UAS) Designated Test Sites. The Nevada Governor's Office of Economic Development is prodding the state to be the nation's leading test site for UAS development. In his December 2, 2014 Executive Department Proclamation, Governor Sandoval included, "[E]xpanding computer science education faces challenges that must be addressed, including counting computer science classes towards high school graduation requirements, and providing professional development for computer science teachers."

Nevada's Regional Professional Development Program was established to offer professional development focused on the content teachers teach, how they teach it, student performance and changes in instructional strategies that result in increased student achievement. Nevada's Northwest Regional Professional Development Program (NWRPDP) serves six Nevada school districts: Carson City, Churchill, Douglas, Lyon, Storey and Washoe Counties. Five of the six counties are rural counties (Washoe is the exception). Student enrollment for all six counties is approximately 89,000 students over 40% of which are free/reduced lunch students and over 15% are English Language Learners.

In response to Governor Sandoval's proclamation, the NWRPDP is proposing the **Nevada STEM Underwater and Aerial Vehicle Computer Science Institute (Institute)** to develop STEM skills and content knowledge among middle and high school science teachers. Local businesses and an internationally recognized science research center specializing in Unmanned Autonomous Vehicles (UAVs) and computer programming, along with experienced STEM and science learning facilitators, will collaborate to provide hands-on, cutting edge professional development for teachers and STEM learning for students. Key focus areas for the Institute are to provide professional development that leads to school-wide shifts in instructional practice in STEM content by increasing teachers' content knowledge and pedagogical skills through hands-on learning in important STEM technologies for our state.

Goals of the project are:

- Middle and high school science teachers will improve their content knowledge and pedagogical skill in STEM teaching and learning, focused on, but not limited to, computer science and aerial and underwater vehicles, through a rigorous two-week summer institute delivered by local experts managing their own businesses in UAV's and computer programming, scientists, and STEM professional development learning facilitators.
- Middle and high school science teachers and their students will have access during the school year to the team of UAV and computer programming experts, scientists, and professional learning facilitators in STEM and science during follow-up trainings, problem solving sessions, consultation opportunities, and classroom visits to facilitate and support their learning.
- Middle and high school science teachers will learn and practice building and maintenance skills such as soldering, wiring, programming, troubleshooting, and more required in STEM fields involving UAV's while working in collaborative groups to assemble and maintain the UAV's they will use with their students.
- Middle and high school teachers and students will have access to programmable aerial and underwater autonomous vehicles including the tools required to effectively utilize and maintain them at their school sites to engage in relevant STEM inquiry learning and to utilize computer programming skills in real life environments and technologies deemed important to the future of our state and business.
- Middle and high school students of participating teachers will learn computer programming through access to and utilization of an online computer programming course available at their school sites and homes to learn computer programming, including the skills required to program UAV's.

Teachers will be assessed using a Likert Scale survey on the first day of the Institute, again on the last day of the institute and a third time during a debrief class in Spring 2017. Teachers will be surveyed about their content knowledge in STEM, their pedagogical skills in STEM, computer science and programming, STEM building and maintenance skills such as soldering and wiring, troubleshooting aerial and underwater vehicles, and classroom use of UAVs.

Data will be collected and reported on the number of hours and courses completed on the NCLab computer programming and 3D modeling program by students. An online archive of photos and videos from the summer institute, classrooms and follow-up sessions will be posted on a free Flickr (or equivalent) image bank set up for the class.

C: Project and Budget Narrative

Duplicate this form for each proposed project. **FILL THIS OUT**

Funding Purposes: _X___STEM District's priority rank_1__

_____Advanced Placement

_____Dual Enrollment

Project Name: Nevada STEM Underwater and Aerial Vehicle Computer Science Institute

Proposed Funding: $ 134,999.00

***Project Narrative**: The written narrative in this section **may be up to three pages**, not including anticipated outcomes for each proposed project. The narrative must show how the proposed project supports the funding purpose.

The Northwest Regional Professional Development Program (NWRPDP) is proposing professional development for teachers in six Nevada school districts: Carson City, Churchill, Douglas, Lyon, Storey and Washoe Counties via the **Nevada STEM Underwater and Aerial Vehicle Computer Science Institute (Institute),** which will focus on developing STEM skills and content knowledge among middle and high school science teachers. Local businesses and an internationally recognized science research center specializing in Unmanned Autonomous Vehicles (UAVs) and computer programming, along with experienced STEM and science learning facilitators, will collaborate to provide hands-on, cutting edge professional development for teachers and STEM learning for students. The Institute is a partnership between NWRPDP, NClab, AboveNV, and the Tahoe Environmental Research Center.

The Institute will deliver STEM professional development and training in the knowledge, safety, pedagogy, research potential, and utilization of aerial and underwater UVAs. An integral part of the Institute will include computer science, specifically computer programming and 3D modeling, for participating teachers (and their students) to prepare them to work with and support their students' learning during the school year. Teachers will learn various methods of incorporating the use of computer programming and UAVs in student learning, by integrating them into a course they already teach, offering a new elective course and/or as an afterschool class or club.

In July 2016, the NWRPDP will recruit 24 teachers: two middle school and two high school teachers from each of the six counties served by the NWRPDP to participate in the Institute (via email, flyers, website). If slots are not filled from each of the six counties, additional rural applicants will be accepted, and next Washoe County applicants if all slots are not filled. The application process for teachers will

include submittal of: 1) application, including a short plan for how they foresee integrating UAVs and computer programming into their school day with students; 2) resume, and; 3) at least one letter of recommendation from an administrator, colleague, or parent. Participants will be chosen based on their responses. Successful applicants will participate in the two-week institute and school year follow-up and consultation opportunities.

The NWRPDP will organize and facilitate the institute. Brian Crosby, NWRPDP Pre-K-12 STEM Learning Facilitator, and Lou Loftin, NWRPDP Pre-K-12 Science Learning Facilitator, will oversee the project. In addition, the NWRPDP STEM and Science Learning Facilitators will in the areas of pedagogy, classroom integration and alignment with the Nevada Academic Content Standards in Science, based on the Next Generation Science Standards.

The summer Institute will be held in NWRPDP's training rooms and facilities at the Regional Center For Teaching and Learning, (RCTL) in Reno, and in outdoor sites to be determined (local fields, open space, lakes, ponds) for deploying and flying aerial and underwater UAVs. The follow-up opportunities will take place at the Regional Center For Teaching and Learning and/or at teachers' school sites.

Each participating teacher will be provided with a waterproof digital camera to use during the institute as well as in their classrooms to document, evaluate and share both teacher and student learning and progress and provide feedback for the project.

The Institute will start with two days of computer science and 3-D modeling training using the online course offered by NClab of Reno. Pavel Solin, founder and president of NClab, will lead the training and school year follow-up opportunities, including consulting and troubleshooting, for teachers. Besides familiarizing participating teachers with computer programming and the NClab course, their students will be provided the course during the following year.

Next, participating teachers will receive three days of training in aerial drones from Kirk Ellern and his team from AboveNV, a Reno based company that offers face to face and online training in the basics of flight, safety, engineering, legal issues and operations of UAVs. Each teacher will receive a **Parrot MiniDrone** capable of flying in the air or rolling on the ground or ceiling. Teachers will learn and practice how to control the UAVs indoors and outdoors in preparation for flying and controlling larger UAVs. Participating teachers will have access to four sets of ten Parrot MiniDrones per set to check out for use at their schools to learn and practice deploying UAVs. Teachers will then learn to fly and control **Phantom 3 Professional Aerial AUVs**. These UAVs come with an HD camera, science payload space, and can be programmed to follow commands. Besides piloting skills, teachers will learn

troubleshooting, repair, programming, and the research capabilities the Phantom 3 enables through reconfiguring for different data collection, science field work tasks and investigations. Teachers will have access to four sets of three Phantom 3s to check out as needed for use with their students. In addition to the Institute training, school year follow-up sessions and classroom visits will be provided by the AboveNV team.

The second week of the Institute will include five days training in UAVs led by Dr. Alex Forrest from the Tahoe Environmental Research Center in Incline Village. Initially teachers will learn the history, use, and safety of UAVs. Subsequently teachers will learn to operate **OpenROV 2.8 Mini Observation Class ROVs** (Remotely Operated Vehicles). These underwater drones are capable of reaching depths over 300 feet and include HD quality video, scaling lasers, underwater lighting, reach speeds over two knots, have a battery life over two hours and contains space onboard for experiments and expanded computer boards and programming. The required laptop that pilots the UAV also allows users to view and record what the ROV is seeing. Next, teachers, again guided by Dr. Forrest, will work in teams of four to assemble the **6 OpenROV 2.8s** that will be available for classroom checkout and use. A focus will be learning and practicing soldering, wiring, assembly and troubleshooting skills during the building process. Trips to local lakes and ponds to learn and practice deployment and trouble-shooting of the UAVs will be included. Dr. Forrest will be available for follow-up sessions and consulting to facilitate teachers and students in deploying and troubleshooting the UAVs for inquiry science and engineering projects.

During the school year, participating teachers and their students will have access to the NClab computer programming course in and out of school as a resource to learn the programming required for operating the UAVs. Students and teachers can go as far through the program as they wish.

Follow-up sessions, classroom visits, and consultation time from Institute leaders will be provided for Institute teachers and/or students and will include: weekend or weeknight teacher workshops on topics related to UAV or computer programming use maintenance, troubleshooting, classroom integration, teacher requested topics; school visits for consultation and planning, with teachers and/or students; networking time with participating teachers and leaders to discuss successes, issues, problem solve, share new pedagogies, technical issues or advancements, software updates, tips and tricks. In April 2017, a follow-up session will be held where the teachers will be surveyed for the third time (see reference under goals in the Executive Summary), debriefed about their experiences, collected data will be shared and any photos or video clips not already uploaded to the photo archive will be collected.

Anticipated Outcomes:

- Teachers will learn an introductory level of computer programming and become familiar with a self-paced online computer programming course that will allow them to learn a course in programming.
- Middle and high school students will learn and utilize the computer programming involved in utilizing aerial and underwater UAVs.
- Middle and high school science teachers will improve their content knowledge and pedagogical skill in STEM learning.
- Middle and high school teachers will learn the content knowledge and pedagogical skills to teach and support students in learning to utilize, troubleshoot, program, and innovate with UAVs in research and development.
- Middle and high school students will learn to utilize, troubleshoot, program, and innovate with UAVs furthering their skills in entering STEM fields valued by Nevada's business community.
- Middle and high school teachers and students will learn the technical skills required to build, repair and troubleshoot UAV's and other technologies including soldering, wiring, parts installation, guidance systems, and remote controls furthering their skills in STEM fields.
- Middle and high school students will have access to aerial and underwater UAV's and the tools and materials required for their use and maintenance to learn important STEM skills valued and required by business, college admittance and career readiness.

Teachers will be assessed using a Likert Scale survey on the first day of the Institute, again on the last day of the institute and a third time during a debrief class in the spring of 2017. Teachers will be surveyed about but not limited to; their content knowledge in STEM, their pedagogical skills in STEM, computer science and programming, STEM building and maintenance skills such as soldering and wiring, troubleshooting aerial and underwater vehicles, and classroom use of UAVs.

Data will be collected and reported on the number of hours and courses completed on the NCLab computer programming and 3D modeling program by students. An online archive of photos and videos from the summer institute, classrooms and follow-up sessions will be posted on a free Flickr (or equivalent) image bank set up for the class.

Budget Narrative

Project Name: Nevada STEM Underwater and Aerial Vehicle Computer Science Institute	**Fund Request:** **$ 134,999.00**

Object Code 100 Salaries Total: $ 17,440.00

Description: Hourly pay for 2 NWRPDP STEM and Science Learning Facilitators to prepare, organize, facilitate the Institute and follow-up sessions. 2 staff x 160 hours @ $30/hour = $9,600.00.

Hourly pay for 2 NWRPDP STEM and science facilitators for teaching the institute and follow-up sessions. 2 staff x 112 hours @ $35/hour = $7,840.00.

Object Code 200 Benefits Total: $ 384.00

Fringe Benefits on above Salaries:

Medicare 1.45%: $253.00

Workers Compensation 0.75%: $131.00

Object Code 300/400 Purchased Services Total: $ 31,279.00

Description:

Pavel Solin, NCLab, Computer Programming and 3D Modeling course and follow-up sessions for 24 Institute teachers $2,400.00.

Dr. Alex Forest, Tahoe Environmental Research Institute,Nevada/University of California, Davis - Preparation and Course Instruction for teachers and follow-up sessions in Underwater Autonomous Vehicles $21,739.00.

Kirk Ellern, AboveNV, Preparation, Course Instruction for teachers, and follow-up sessions for teachers and students in Aerial Autonomous Vehicles $6,480.00.

Tuition for NCLab online courses for 24 participating teachers 24 x $27.50 = $660.00. ($0.50 discount after first 500 on students.) 720 students are in 500 section below.

Object Code 500 Transportation Services, Staff Travel Total: $ 30,650.00

Description: Bus transportation for 2 classroom trips per participating teacher to lakes, ponds, river pools, swimming pools, other, to utilize the underwater vehicles. $200 per trip x 2 x 24 = $9,600.00.

Tuition for NCLab online courses for 24 participating teachers and their students, 24 teachers and 30 students per each class. 500 x $30.00 = $15,000 + 220 x $27.50 = $6,050 = $21,050.00. ($0.50 discount after first 500.) 24 staff members are in 300 section above.

Object Code 600 Supplies Total: $ 51,187.00
Lunches - Lunch for teacher participants and instructors 24 teachers + 3 Instructors = 27 x 10 days of institute x $11 = $2,970.00. Fujifilm XP80 (or equivalent) Digital cameras for each teacher (24) and (1) for the Institute for documenting and sharing learning during teacher institute and each teachers' classroom. 25 Fujifilm XP80 @ $180.00 = $4,500.00. Description: Parrot Minidrones 1 for each participating teacher and instructor = 25. Also, 4 sets of 10 each (40) to be checked out by teachers from NWRPDP as needed for classroom instruction with students. 25 + 40 = 65 Parrot Minidrones @ $99.00 each = $6,435.00. Phantom 3 Standard Unmanned Aerial Vehicle (9) for Teacher Institute training and classroom checkout, 12 for 4 sets of 3 Phantoms to a set (12) each set available to check out through NWRPDP for classroom instruction. 9 + 12 = 21 Phantoms @ $1,216 each = $25,536.00. OpenROV V.2.8 Set Unmanned Underwater Vehicles (7) for Institute training and classroom checkout. 7 OpenROV's @ $1,399 each = $9,793.00 Acer Chromebook C910 or equivalent required to operate each OpenROV underwater vehicle. 7 @ $279 each = $1,953.00.
Object Code 800 Dues and Fees/ Other Misc. Total: $
Description:
Object Code 700 Equipment Total: $
Description:
Indirect Costs Total: $ 4,059.00
Indirect costs at the Nevada Department of Education approved rate of 3.10% for the above direct costs.

Nevada Department of Education
BUDGET EXPENDITURE SUMMARY

SUBRECIPIENT: Washoe County School District PROJECT NUMBER 17-350(2)-16000

SCHOOL / GRANT NAME: College & Career Ready; NW RPDP FISCAL YEAR 16-17

CHECK ONE: BUDGET X AMENDMENT

OBJECT	DESCRIPTION	INSTRUCTION COST	SUPPORT SERVICES	TOTAL
100	Salaries	0.00	17,440.00	17,440.00
200	Benefits	0.00	384.00	384.00
300	Purchased Professional Services	0.00	31,279.00	31,279.00
400	Purchased Property Services	0.00	0.00	0.00
500	510 Student Transportation Services	0.00	9,600.00	
	580 Staff Travel	0.00	0.00	
	590 Interdistrict Purchased Services	21,050.00	0.00	
	Total 500	21,050.00	9,600.00	30,650.00
600	610 General Supplies (exclude 612)	6,435.00	2,970.00	
	612 Non InformationTech Items of Value *	35,329.00	0.00	
	640 Books and Periodicals (Ex 641)	0.00	0.00	
	641 Textbooks	0.00	0.00	
	650 Supplies; Info Tech (Ex 651 , 652, 653)	4,500.00	0.00	
	651 Software	0.00	0.00	
	652 Information Tech Items of Value *	1,953.00	0.00	
	653 Web-based and Similar Programs	0.00	0.00	
	Total 600	48,217.00	2,970.00	51,187.00
800	810 Dues and Fees	0.00	0.00	
	890 Other Miscellaneous	0.00	0.00	
	800 Other	0.00	0.00	
	Total 800	0.00	0.00	0.00
Subtotal 100 - 600 & 800		69,267.00	61,673.00	130,940.00
** Approved Indirect Cost Rate : 3.10%				4,059.00
700	730 Equipment: over $5,000 each	0.00	0.00	
	700 Other	0.00	0.00	
	Total 700	0.00	0.00	0.00
TOTAL		69,267.00	61,673.00	134,999.00

Signature: Rob Luna
Signature of Authorized Representative

Date April 25, 2016

Name/Title: Rob Luna, Grant Fiscal Administrator

* All Items of Value must be itemized on the Budget Detail.

** Indirect Cost Rates must be approved by the Dept. of Education before the sub grantee may budget for and charge those costs to the grant.

DEPARTMENT OF EDUCATION USE ONLY

Initial

Date Approved

Instruction

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

Function	A Object Code	B Title of Position or Description of Item	C FTE	D Quantity	E Unit Amount/ Calculations	F Total Amount	Budget Summary Object Total
	100	PERSONNEL:					
		NARRATIVE:					
					TOTAL	$ -	$ -
	200	BENEFITS:					
1000	2100	Group Insurance		$ 7,716.00			
1000	2101	Life Insurance: Cert / Class		$ 125.00			
1000	2101	Life Insurance: Admin / Pro		$ 786.00			
1000	2102	Long Term Disab: Admin / Pro		0.25%			
1000	2200	FICA		6.20%			
1000	2300	PERS		28.00%			
1000	2400	Medicare		1.45%			
1000	2700	Workers Compensation		0.75%			
1000	2880	Other Post Emp Benefits		$ 750.00			
1000	2881	Post Employment Benefits		$ -			
		NARRATIVE: Standard fringe benefits rates.					
					TOTAL	$ -	$ -
	300	PURCHASED PROF. SERVICES:					
1000	3200	Educational Consultants					
1000	3300	Employee Training & Develop					
		NARRATIVE:					
					TOTAL	$ -	$ -

Instruction

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

Function	A Object Code	B Title of Position or Description of Item	C FTE	D Quantity	E Unit Amount/ Calculations	F Total Amount	Budget Summary Object Total
	400	PURCHASED PROP. SERVICES:					
	Other	Insert Object & Description					
		NARRATIVE:					
					400 TOTAL	$ -	$ -
	500	OTHER PURCHASED SERVICES:					
	5104	Student Transportation					$ -
	5190	Student Travel & Related					$ -
	5800	Travel					$ -
	5801	Mileage					$ -
1000	5310	Postage					$ -
1000	5340	Cell Phone					$ -
1000	5500	Printing					$ -
1000	5600	Student Tuition		500 220	$ 30.00 $ 27.50	$ 15,000.00 $ 6,050.00	$ 21,050.00
1000	500 Other	Insert Object & Description					$ -
1000	500 Other	Insert Object & Description					$ -
		NARRATIVE: Student tuition costs for NCLab online courses for participating students to take classes. Price discount of $0.50 after 500 student tuition count.					
					500 TOTAL		$ 21,050.00

Instruction

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

Function	A Object Code	B Title of Position or Description of Item	C FTE	D Quantity	E Unit Amount/ Calculations	F Total Amount	Budget Summary Object Total
	600	SUPPLIES:					
1000	6100	Parrot Minidrones		65	$ 99.00	$ 6,435.00	
1000	6111	Warehouse Supplies					$ 6,435.00
1000	6120	Unmanned Aerial Vehicles		21	$ 1,216.00	$ 25,536.00	
1000	6120	Unmanned Underwater Vehicles		7	$ 1,399.00	$ 9,793.00	$ 35,329.00
1000	6400	Professional Books					
1000	6401	Magazines and Periodicals					
1000	6402	Library Books					$ -
1000	6410	Textbooks					$ -
1000	6503	Digital Cameras		25	$ 180.00	$ 4,500.00	$ 4,500.00
1000	6510	Software Instructional					
1000	6511	Software Administrative					$ -
1000	6520	Computers		7	$ 279.00	$ 1,953.00	
1000	6521	Tech Inventory Items of Value					$ 1,953.00
1000	6530	Web Based & Similar					$ -

NARRATIVE:
Parrot Minidrones 1 for each participating teacher and instructor = 25. Also, 4 sets of 10 each (40) to be checked out by teachers from NWRPDP as needed for classroom instruction with students.

Instruction

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	**Object Code**	**Title of Position or Description of Item**	**FTE**	**Quantity**	**Unit Amount/ Calculations**	**Total Amount**	**Budget Summary Object Total**
		Phantom 3 Standard Unmanned Aerial Vehicle (9) for Teacher Institute training and classroom checkout. 12 for 4 sets of 3 Phantoms to a set (12) each set available to check out through NWRPDP for classroom instruction. 9 + 12 = 21 Phantoms. OpenROV V.2.8 Set Unmanned Underwater Vehicles (7) for Institute training and classroom checkout. 7 OpenROV's. Fujifilm XP80 (or equivalent) Digital cameras for each teacher (24) and (1) for the Institute for documenting and sharing learning during teacher institute and each teachers' classroom. 25 Fujifilm XP80. Acer Chromebook C910 (7) required to operate each OpenROV underwater vehicle.					
					600 TOTAL		$ 48,217.00
	800	OTHER OBJECTS:					
1000	8100	Dues & Fees					$ -
1000	8900	Miscellaneous					$ -
1000	800 Other	Insert Object & Description					$ -
		NARRATIVE:					
					800 TOTAL		$ -
	Subtotal Objects 100 - 600 & 800						$ 69,267.00

Instruction

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	Object Code	Title of Position or Description of Item	FTE	Quantity	Unit Amount/ Calculations	Total Amount	Budget Summary Object Total
	Approved Indirect Cost Rate: 3.10%	x Subtotal Above					
	700	EQUIPMENT:					
1000	7310	Capital Equipment > $5,000					
1000	7340	Capital Computer > $5,000					$ -
1000	700 Other	Other > $5,000					$ -
		NARRATIVE:					
					700 TOTAL		$ -
					GRANT TOTAL		$ 69,267.00

Support Services

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	Object Code	Title of Position or Description of Item	FTE	Quantity	Unit Amount/ Calculations	Total Amount	Budget Summary Object Total
	100	PERSONNEL:					
2213	1691	Training Pay, Preparation		320	$ 30.00	$ 9,600.00	
2213	1691	Training Pay, Instructor		224	$ 35.00	$ 7,840.00	
		NARRATIVE: Hourly pay for 2 RPDP STEM and ScienceTrainers for preparation for organize/facilitate institute and follow-up sessions. Hourly pay for 2 RPDP STEM and ScienceTrainers for teaching institute and follow-up sessions.			TOTAL	$ 17,440.00	$ 17,440.00
	200	BENEFITS:					
2213	2100	Group Insurance		$ 7,716.00			
2213	2101	Life Insurance: Cert / Class		$ 125.00			
2213	2101	Life Insurance: Admin / Pro		$ 786.00			
2213	2102	Long Term Disab: Admin / Pro		0.25%			
2213	2200	FICA		6.20%			
2213	2300	PERS		28.00%			
2213	2400	Medicare		1.45%	$ 17,440.00	$ 253.00	
2213	2700	Workers Compensation		0.75%	$ 17,440.00	$ 131.00	
2213	2880	Other Post Emp Benefits		$ 750.00			
2213	2881	Post Employment Benefits		$ -			$ 384.00
	2100	Group Insurance		$ 7,716.00			
	2101	Life Insurance: Cert / Class		$ 125.00			
	2101	Life Insurance: Admin / Pro		$ 786.00			
	2102	Long Term Disab: Admin / Pro		0.25%			
	2200	FICA		6.20%			
	2300	PERS		28.00%			
	2400	Medicare		1.45%			
	2700	Workers Compensation		0.75%			
	2880	Other Post Emp Benefits		$ 750.00			
	2881	Post Employment Benefits		$ -			$ -
		NARRATIVE: Standard fringe benefits rates.			TOTAL	$ 384.00	$ 384.00

Support Services

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	**Object Code**	**Title of Position or Description of Item**	**FTE**	**Quantity**	**Unit Amount/ Calculations**	**Total Amount**	**Budget Summary Object Total**
	300	PURCHASED PROF. SERVICES:					
2213	3200	Consultant, Pavel Solin		1	$ 2,400.00	$ 2,400.00	
2213	3200	Consultant, Dr. Alex Forest		1	21,739.00	$ 21,739.00	
2213	3200	Consultant, Kirk Ellern		1	6,480.00	$ 6,480.00	
2213	3300	Employee Training & Develop		24	$ 27.50	$ 660.00	
		NARRATIVE: Pavel Solin, NCLab, Computer Programming and 3D Modeling course and follow-up sessions for 24 Institute teachers. Dr. Alex Forest, Tahoe Environmental Research Institute,Nevada/University of California, Davis - Preparation and Course Instruction for teachers and follow-up sessions in Underwater Autonomous Vehicles. Kirk Ellern, AboveNV, Preparation, Course Instruction for teachers, and follow-up sessions for teachers and students in Aerial Autonomous Vehicles. Staff tuition costs for NCLab online courses for participating teachers to take the online courses.					
					TOTAL	$ 31,279.00	$ 31,279.00
	400	PURCHASED PROP. SERVICES:					
	Other	Insert Object & Description					
		NARRATIVE:					
					400 TOTAL	$ -	$ -

Support Services

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	Object Code	Title of Position or Description of Item	FTE	Quantity	Unit Amount/ Calculations	Total Amount	Budget Summary Object Total
	500	OTHER PURCHASED SERVICES:					
2700	5104	Student Transportation		48	$ 200.00	$ 9,600.00	$ 9,600.00
	5190	Student Travel & Related					$ -
	5800	Travel					$ -
	5801	Mileage					$ -
	5310	Postage					$ -
	5340	Cell Phone					$ -
	5500	Printing					$ -
	5600	Student Tuition					$ -
	500 Other	Insert Object & Description					$ -
	500 Other	Insert Object & Description					$ -
		NARRATIVE: Bus transportation for 2 classroom trips per participating teacher to lakes, ponds, river pools, swimming pools, other, to utilize the underwater vehicles.					
					500 TOTAL		$ 9,600.00

Support Services

Grant: College and Career Ready: NW RPDP **Project No:** 17-350(2)-16000
Fiscal Year: 16-17

Function	A Object Code	B Title of Position or Description of Item	C FTE	D Quantity	E Unit Amount/ Calculations	F Total Amount	Budget Summary Object Total
	600	**SUPPLIES:**					
	6100	General Supplies		270	$ 11.00	$ 2,970.00	
	6111	Warehouse Supplies					$ 2,970.00
	6120	Non Info Tech Inventory Items					$ -
	6400	Professional Books					
	6401	Magazines and Periodicals					
	6402	Library Books					$ -
	6410	Textbooks					$ -
	6503	Supplies Info Technology					$ -
	6510	Software Instructional					
	6511	Software Administrative					$ -
	6520	Computers					
	6521	Tech Inventory Items of Value					$ -
	6530	Web Based & Similar					$ -
		NARRATIVE: Lunches - Lunch for teacher participants and instructors 24 teachers + 3 Instructors = 27 staff x 10 days of institute.					
					600 TOTAL		$ 2,970.00

Support Services

Grant: College and Career Ready: NW RPDP

Project No: 17-350(2)-16000
Fiscal Year: 16-17

	A	B	C	D	E	F	
Function	Object Code	Title of Position or Description of Item	FTE	Quantity	Unit Amount/ Calculations	Total Amount	Budget Summary Object Total
	800	OTHER OBJECTS:					
	8100	Dues & Fees					$ -
	8900	Miscellaneous					$ -
	800 Other	Insert Object & Description					$ -
		NARRATIVE:					
					800 TOTAL		$ -
	Subtotal Objects 100 - 600 & 800						$ 61,673.00
	Approved Indirect Cost Rate: 3.10% x Subtotal Above						$ -
	700	EQUIPMENT:					
	7310	Capital Equipment > $5,000					
	7340	Capital Computer > $5,000					$ -
	700 Other	Other > $5,000					$ -
		NARRATIVE:					
					700 TOTAL		$ -
					GRAND TOTAL		$ 61,673.00

SECTION E: STATEMENT OF ASSURANCE
FY 2017

Name of District or Agency: **Washoe County School District**
Printed Name and Title of The District's (Agency's) Signatory: **Lauren Ohlin, Director of Grants**

1. Funds received under this program will be used solely for the purpose of supporting the activities as outlined in the RFA
2. Use funds to supplement and not replace the money that is otherwise to be expended by the public school or an organization.
3. Funds may be used in accordance with the allowable expenses identified in this application. Examples may include one or more of the following:

    - Increase opportunities for dual enrollment courses/credits for students enrolled in high school including charter schools;
    - Create competitive STEM programs for students enrolled in middle or high school that build the bridge between the STEM business community and educational experiences;
    - Establish new AP programs or expand existing programs, with a focus on underserved populations in rural and urban Nevada.

4. All requests for budget amendments must be made in writing and be approved prior to expenditure of funds. The annual Final Financial report is due to the Nevada Department of Education by August 11, 2017.
5. Funds not committed for expenditure by June 30, 2017, will be reverted to the state General Funds after all payments of money committed have been made.

Signature of Authorized Person

4/28/16

Date